Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 1 of 21

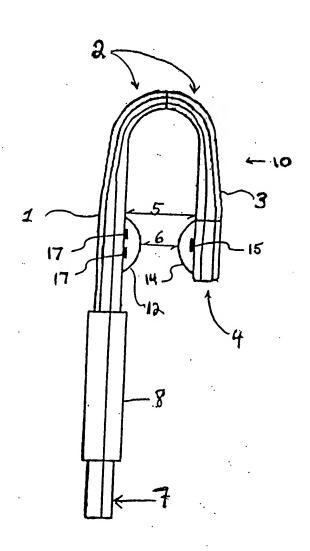
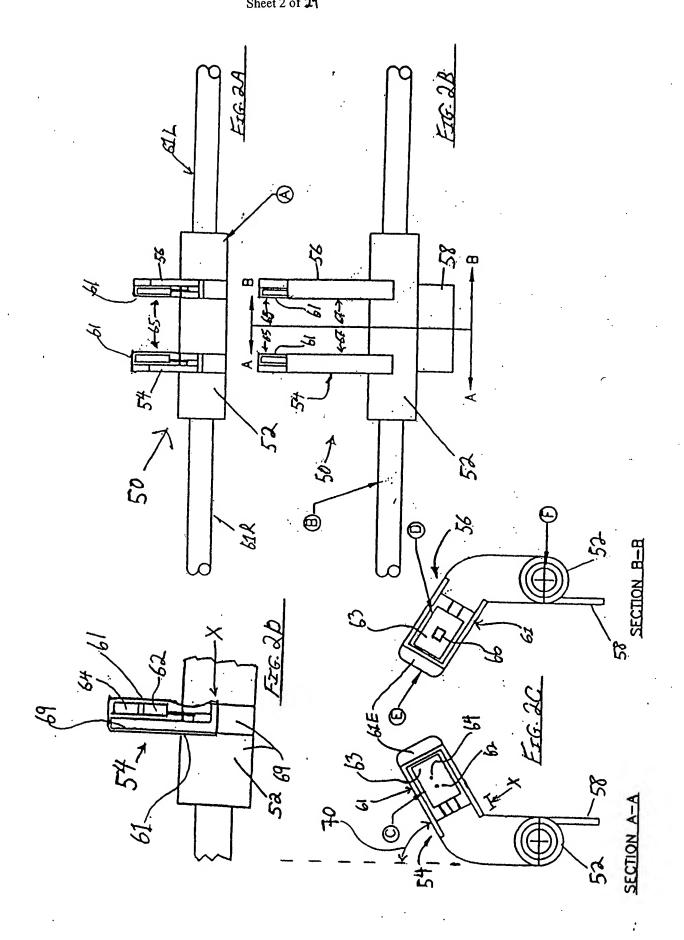


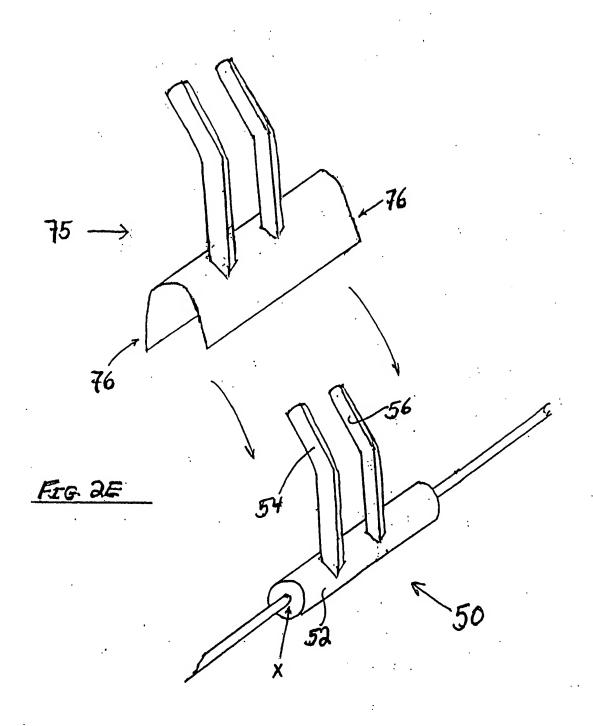
FIGURE 1

Docket No. 10457-043 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 2 of 29

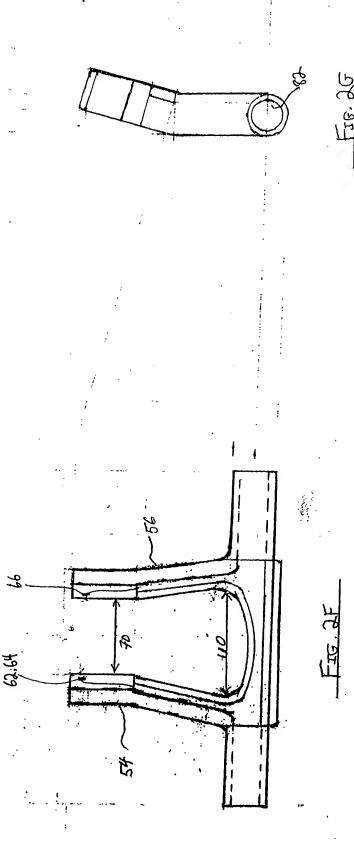


Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 3 of 24

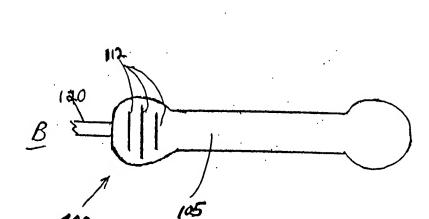


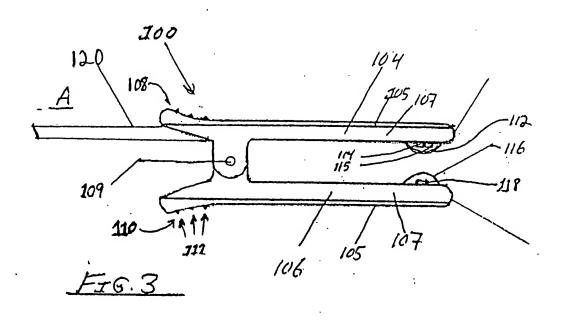


Docket No. 10457-1741 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 4 of 39



Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 5 of 39





Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 6 of 34

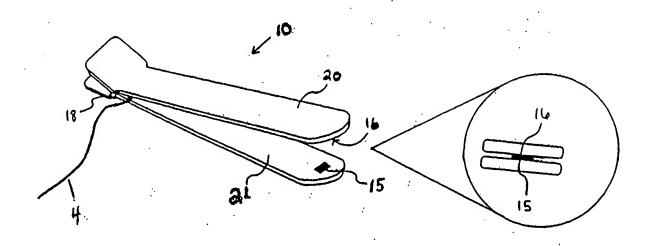


FIGURE 4

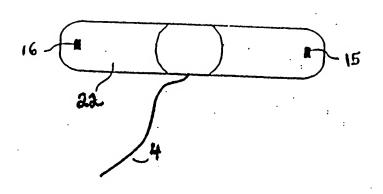


FIGURE 5

Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 7 of 34

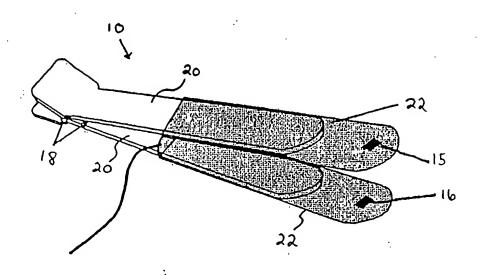


FIGURE 6

Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 8 of 24

A METHOD OF USING IDENTIFYING AND MONITORING VASCULAR PERFUSION/RESISTANCE

Removably affixing a first pulse oximeter probe to a central source site located in the head of a patient in need of the method.

Removably affixing a second pulse oximeter probe to a first peripheral/non-central site of interest on the patient.

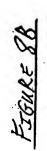
Measuring signals from said central source site pulse oximeter and said first peripheral site pulse oximeter.

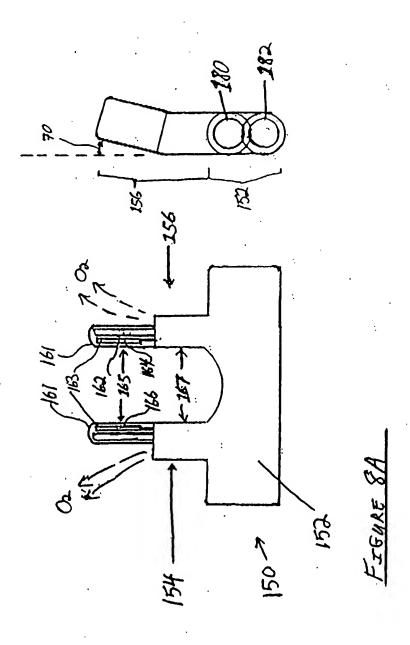
Averaging sufficient sequential signals from each site to obtain a statistically reliable average, and from said average calculating a time-set estimate of the arterial blood oxygen saturation, and repeating this averaging to obtain sequential time-set estimates from each site.

Comparing a time-set estimate of the arterial blood oxygen saturation from the central source site with an estimate, taken at a similar time, of the arterial blood oxygen saturation from the first peripheral site.

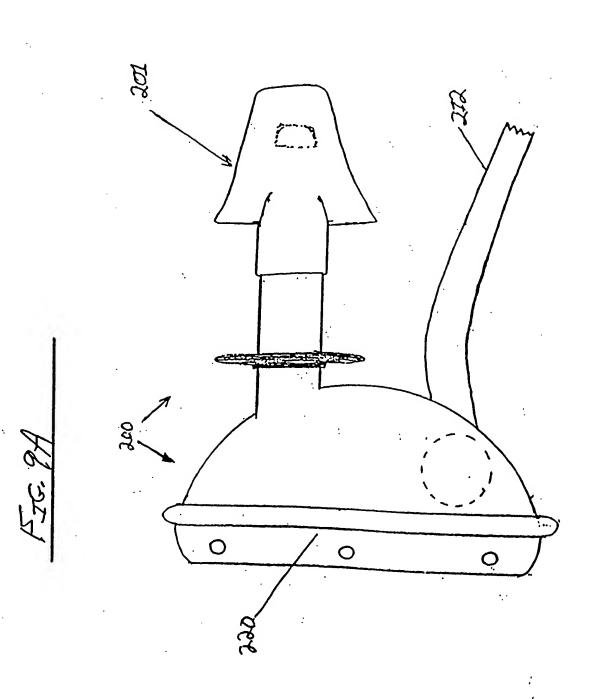
Determining the presence or absence of, or the time-based changes in, impaired peripheral perfusion proximal to said first peripheral site.

Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 9 of 39

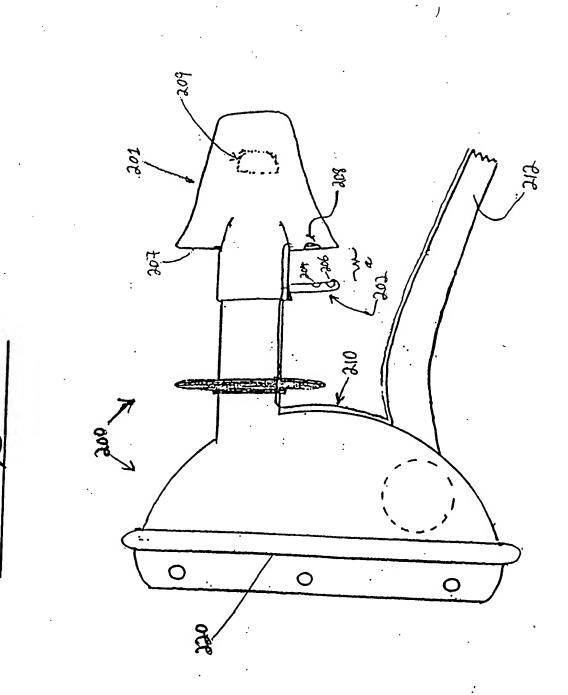




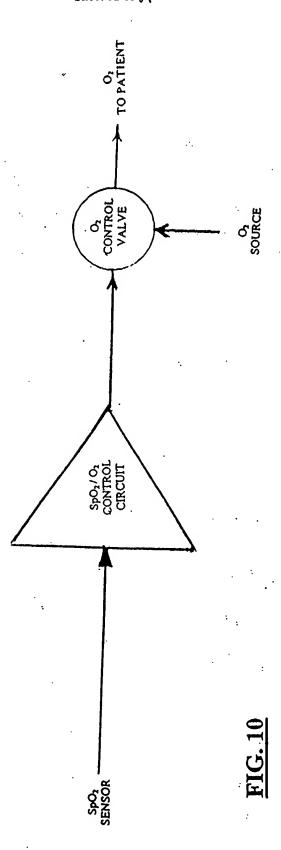
Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 10 of JR



Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 11 of 34

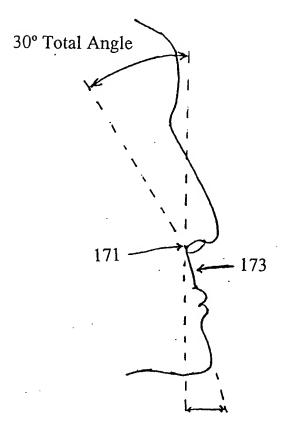


Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 12 of 34



Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 13 of 34

Figure 11



15° Upper Lip Angle

Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 14 of 191

Figure 12A

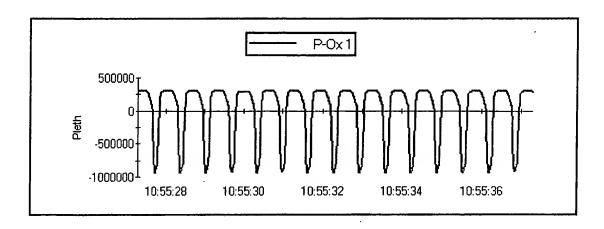
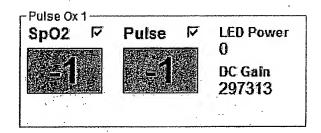


Figure 12B



Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 15 of 39

Figure 13A

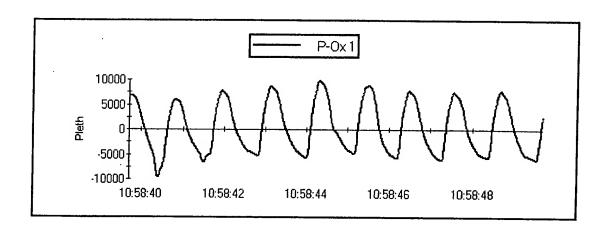
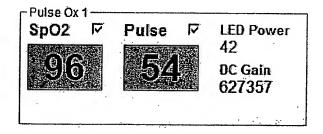


Figure 13B



Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 16 of 39

Figure 14A

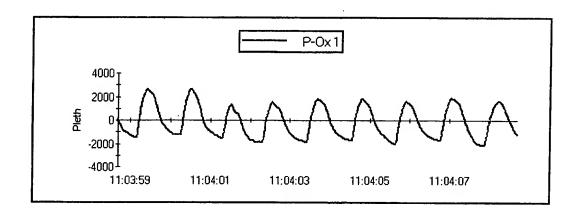
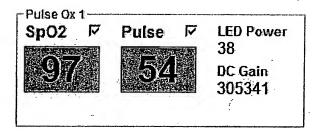


Figure 14B



Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727

Sheet 17 of 28

Figure 15A

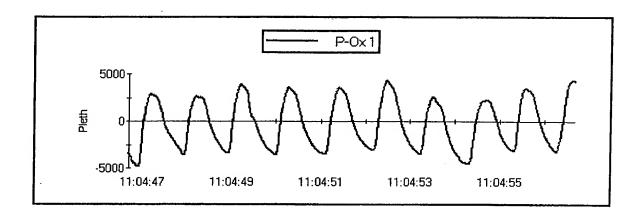
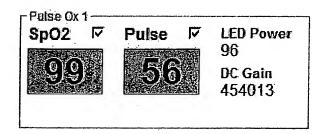


Figure 15B



Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727

Figure 16A

Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 19 of 39 LED Power LED Power LED Power DC Gain 833077 DC Gain 233600 DC Gain 619474 No Finger Readings. Data Loaded 7 (a) (g) Pulse Pulse Pulse 1 1 1 Pulse Ox 1 -Pulse Ox 2 Pulse Ox 3 Sp02 **Sp02** Sp02 Patient Info 12:55:00 12:27:19 No Finger Pleth P-0×3 12:50:00 12:27:17 12:45:00 Notes P-0x2 12:27:15 12:40:00 12:35:00 12:27:13 Pulse P-Q-1 12:30:00

12:27:11

Pleth

Resumed Functionality and the Finger did Not.

Sp02

After a Minute the Nasal and Cheek Probes

Figure 16B

8

8 8

(%) noiterute?

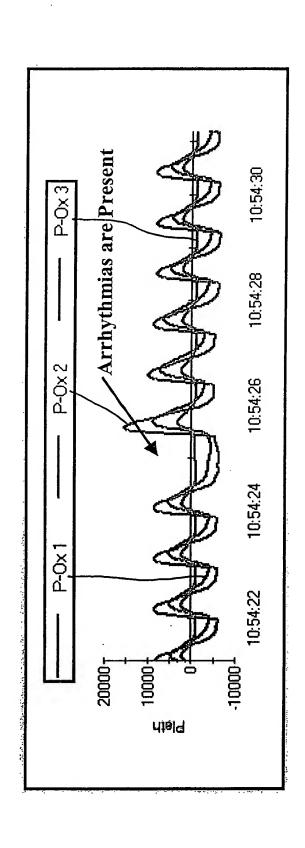
Phone: 407-926-7727 Sheet 20 of 25 LED Power LED Power LED Power DC Gain 677762 DC Gain 553320 DC Gain 183107 254 Data Loaded 1 17 Pulse Pulse 1 17 17 Pulse Ox 3-Pulse Ox 2 -Pulse Ox 1 Sp02 Sp02 Sp02 Patient Info 13:10:00 12:57:21 P-0x3 13:05:00 12:57:19 Notes 13:00:00 P-0x2 12:57:17 12:55:00 1257:15 12:50:00 <u>Р</u> 12:57:13 12:45:00 10000 ġ Ŕ 8 riald (%) notherwise

As the Case was Ending, Flow was Resumed and Everything

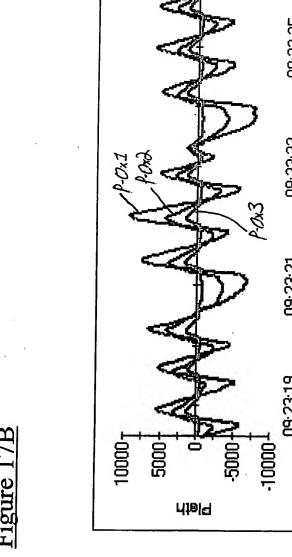
was Working Once Again.

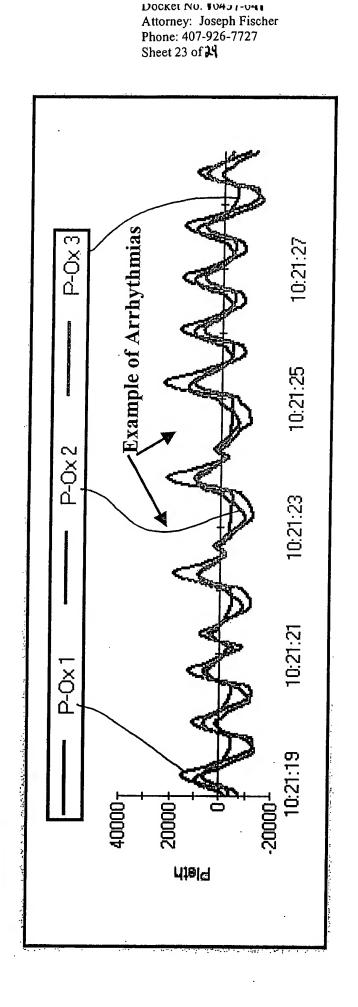
Docket No. 10457-041 Attorney: Joseph Fischer

Figure 16C



Docket No. 10457-044 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 21 of 34

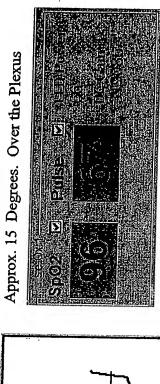


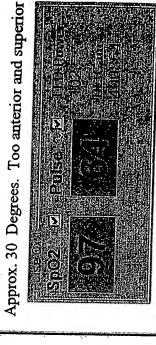


DOCKET NO. 1045 1-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 24 of 24 Cross-septum Nasal Probe Data, by itself Cross-septum Nasal Probe Data 13:00:48 13:00:46 Cheek/Lip Probe Data P-0×1 13:00:44 13:00:42 13:00:40 -5000₁ 5000 Pleth Finger Probe Data Figure 17D Comparison Event with: of Same

Docket No. 10457-042 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 25 of 34

Approx. 0 Degrees. Too inferior and posterior





11:03:39

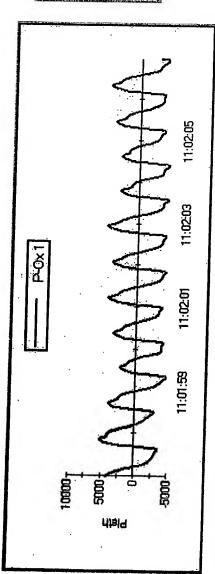
11:03:37

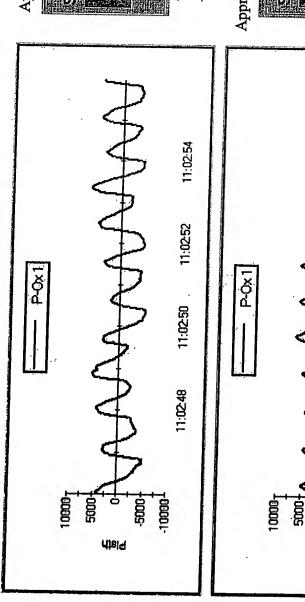
11:03:35

11:03:33

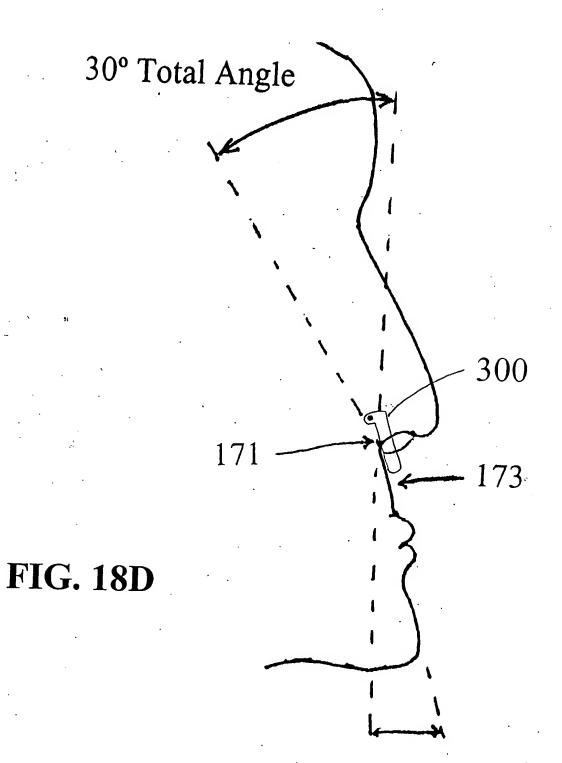
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Docket No. 10457-042 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 26 of 34



15° Upper Lip Angle

Docket No. 10457-094 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 27 of JA

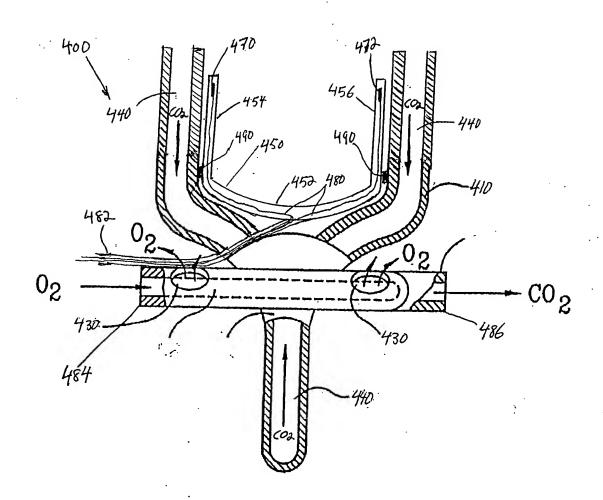


Figure 19A

Docket No. 10457-41 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 28 of 34

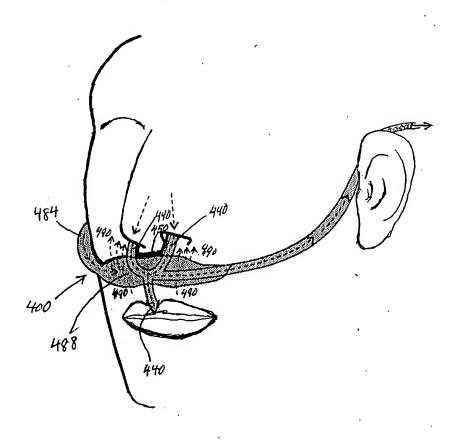


Figure 19B

Docket No. 10457-041 Attorney: Joseph Fischer Phone: 407-926-7727 Sheet 29 of 29

